

WHAT IS CLAIMED IS:

1. A movable body dispensing device comprising:
a cylindrical movable body having a male screw thread formed
on the external circumference thereof; a cylindrical main
body having a female screw thread which screws together with
the male screw thread of said movable body, formed on the
intermediate portion of the internal circumference thereof;
a cylindrical operating member coupled rotatably to the rear
end section of said main body, comprising a shaft member
provided so as to project towards the front side from a base
provided at the rear end thereof, said shaft member being
fittable slidably in the longitudinal direction, in a
non-rotatable fashion, into said movable body engaged with
said female screw thread; and a ratchet comprising a set
of ratchet teeth and a ratchet spring, for restricting the
movement of said movable body in the forward direction or
rearward direction; said movable body being progressively
dispensed by causing relative rotation of said main body
and said operating member;

20 wherein a step section is formed on the inner part of
said cylindrical main body between the internal
circumference of said intermediate portion and the internal
circumference of the region apart from said intermediate
portion;

25 said ratchet comprises a cylindrical ratchet spring
section whereon at least one of said set of ratchet teeth

and said ratchet spring are formed integrally; and
said ratchet spring section is sandwiched between the
step section of said main body and the inner side of said
operating member, in such a manner that said shaft member
5 penetrates through the inner side of said ratchet spring
section and thereby enables said movable body to pass through
the same.

2. A movable body dispensing device comprising:
a cylindrical movable body having a male screw thread formed
10 on the external circumference thereof; a cylindrical main
body having a female screw thread which screws together with
the male screw thread of said movable body, formed on the
intermediate portion of the internal circumference thereof;
and a cylindrical operating member coupled rotatably to the
15 rear end section of said main body, comprising a shaft member
provided so as to project towards the front side from a base
provided at the rear end thereof, said shaft member being
fittable slidably in the longitudinal direction, in a
non-rotatable fashion, into said movable body engaged with
20 said female screw thread; said movable body being
progressively dispensed by causing relative rotation of said
main body and said operating member;

wherein a plurality of projecting ribs respectively
projecting to the outer side and extending in the
25 longitudinal direction are formed in the circumferential
direction on the external circumference of said shaft member;

a plurality of grooves which fit mutually with the projecting ribs of said shaft member are formed on the internal circumference of said movable body; and

5 said projecting ribs of said shaft member are constituted by projecting ribs wherein the intermediate portion thereof is larger than the size of said grooves, in such a manner that the region thereof from the front end side to said intermediate portion thereof can be inserted inside the grooves of said movable body, further insertion 10 beyond this being prevented and said movable body and said shaft member being maintained in prescribed relative positions in the radial direction.

15 3. The movable body dispensing device according to claim 2, wherein the projecting ribs of said shaft member are formed on either side of depressions having a hollow cross section, by excavating a plurality of locations so as to form a hollow cross section.

20 4. A movable body dispensing device comprising: a main body tube; an operating tube provided on the rear end section of said main body tube and capable of relative rotation with respect to said main body tube; a movable body comprising a rotation preventing section and a screw thread section, inserted inside said main body tube and said operating tube; a tube side rotation preventing section for 25 engaging in a non-rotatable fashion with the rotation preventing section of said movable body and guiding said

movable body slidably in the axial direction; a tube side screw thread section for engaging with the screw thread section of said movable body; and ratchets provided respectively on the main body tube and the operating tube,
5 formutuallymeshing and permitting rotation in one direction in synchronism with said relative rotation; said movable body being dispensed progressively towards the front end of said main body tube by means of the engagement of said screw thread sections, the screwing together of said rotation preventing sections, and the meshing of said ratchets;
10

wherein said movable body is formed in a cylindrical shape, and provided with the screw thread section of said movable body on either one of the inner circumference or external circumference thereof, and with the rotation preventing section of said movable body on the other of said inner circumference or external circumference; and
15

20 said tube side rotation preventing section, said tube side screw thread section and said ratchets are arranged in an overlapping fashion in the same plane orthogonal to the axial direction.

5. The movable body dispensing device according to claim 4, comprising:

a shaft member installed on the base section of the operating tube so as to protrude in the axial direction;
25 and

a cylindrical member having a cylindrical shape and

being installed so as to surround the front end side of said shaft member, whilst also being coupled in a non-rotatable fashion to said main body tube;

5 wherein said movable body is inserted in between said shaft member and said cylindrical member, the rotation preventing section of the movable body being provided on the internal circumference of said movable body, and the screw thread section of the movable body being provided on the external circumference of said movable body;

10 said tube side rotation preventing section is provided on the external circumference of said shaft member and engages with the rotation preventing section of the movable body formed on the internal circumference of said movable body;

15 said tube side screw thread section is provided on the internal circumference of said cylindrical member and screws together with the screw thread section of the movable body on the external circumference of said movable body; and
20 said ratchets are arranged in such a manner that they surround said cylindrical member.

6. The movable body dispensing device according to claim 4, comprising:

 a shaft member installed on the base section of the operating tube in a protruding manner in the axial direction;
25 and

 a cylindrical member having a cylindrical shape and

being installed so as to surround the front end side of said shaft member, whilst also being coupled in a non-rotatable fashion to said main body tube;

5 wherein said movable body is inserted in between said shaft member and said cylindrical member, the rotation preventing section of the movable body being provided on the external circumference of said movable body, and the screw thread section of the movable body being provided on the internal circumference of said movable body;

10 said tube side rotation preventing section is provided on the internal circumference of said cylindrical member and engages with the rotation preventing section of the movable body formed on the external circumference of said movable body;

15 said tube side screw thread section is provided on the external circumference of said shaft member and screws together with the screw thread section of the movable body on the internal circumference of said movable body; and

20 said ratchets are arranged in such a manner that they surround said cylindrical member.